

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/553,656

Source: P4/10

Date Processed by STIC: 11/1/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 11/01/2005

PATENT APPLICATION: US/10/553,656

TIME: 10:47:15

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF4\11012005\J553656.raw

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3 <110> APPLICANT: CropDesign N.V.
5 <120> TITLE OF INVENTION: Plants having modified growth characteristics and method for
6   making the same
8 <130> FILE REFERENCE: CD-089-PCT
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/553,656
C--> 10 <141> CURRENT FILING DATE: 2005-10-14
10 <150> PRIOR APPLICATION NUMBER: EP 03076086.2
11 <151> PRIOR FILING DATE: 2003-04-14
13 <160> NUMBER OF SEQ ID NOS: 7
15 <170> SOFTWARE: PatentIn version 3.2
17 <210> SEQ ID NO: 1
18 <211> LENGTH: 336
19 <212> TYPE: DNA
20 <213> ORGANISM: Arabidopsis thaliana
22 <220> FEATURE:
23 <221> NAME/KEY: misc_feature
24 <223> OTHER INFORMATION: MT2a DNA sequence
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28 ggaaactgcg gatgtggatc tggctgcaag tgcggcaacg gttgtggagg ttgcaaaatg      120
29 taccctgact tgggattctc cggcgagaca accacaactg agacttttgt cttgggcggt      180
30 gcaccggcga tgaagaatca gtacgaggct tcaggggaga gtaacaacgc tgagaacgat      240
31 gcttgcaagt gtggatctga ctgcaagtgt gatccttgca cctgcaagtg aagaagcctt      300
32 tttaaataag cagagataat cgagtctctt taatta                                336
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35 <211> LENGTH: 81
36 <212> TYPE: PRT
37 <213> ORGANISM: Arabidopsis thaliana
39 <220> FEATURE:
40 <221> NAME/KEY: MISC_FEATURE
41 <223> OTHER INFORMATION: MT2a protein sequence
43 <400> SEQUENCE: 2
44 Met Ser Cys Cys Gly Gly Asn Cys Gly Cys Gly Ser Gly Cys Lys Cys
45 1          5          10          15
47 Gly Asn Gly Cys Gly Gly Cys Lys Met Tyr Pro Asp Leu Gly Phe Ser
48          20          25          30
50 Gly Glu Thr Thr Thr Thr Glu Thr Phe Val Leu Gly Val Ala Pro Ala
51          35          40          45
53 Met Lys Asn Gln Tyr Glu Ala Ser Gly Glu Ser Asn Asn Ala Glu Asn
54          50          55          60
56 Asp Ala Cys Lys Cys Gly Ser Asp Cys Lys Cys Asp Pro Cys Thr Cys
57 65          70          75          80
59 Lys

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62 <210> SEQ ID NO: 3
63 <211> LENGTH: 545
64 <212> TYPE: DNA
65 <213> ORGANISM: Arabidopsis thaliana
67 <220> FEATURE:
68 <221> NAME/KEY: misc_feature
69 <223> OTHER INFORMATION: MT1 DNA sequence
71 <220> FEATURE:
72 <221> NAME/KEY: misc_feature
73 <222> LOCATION: (331)..(331)
74 <223> OTHER INFORMATION: n is a, c, g, or t
76 <400> SEQUENCE: 3
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78 actgcggatg tggatctggc tgcaagtgcg gcaacggttg tggagggttg aaaatgtacc      120
79 ctgacttggg attctccggc gagacaacca caactgagac ttttgtcttg ggcgttgcac      180
80 cggcgatgaa gaatcagtac gaggcttcag gggagagtaa caacgctgag agcgatgctt      240
81 gcaagtgtgg atctgactgc aagtgtgatc cttgcacctg caagtgaaga agccttttta      300
W--> 82 aataagcaga gataatcgag tctctttaat ntaattaagt tattcaataa gtaaaccata      360
83 tataggatgg tgtttttagg tttggtttat gtgtaataat ggcttcagct tatcttttag      420
84 ccgatcattg tcttttgtgt ttgttttgat catatctttt agatgtctag caaatctgcc      480
85 atgtgatgag tttgtacttc cagtggaaatg ataataatat tatagtttta aatcaaaaaa      540
86 aaaaaa                                          545
88 <210> SEQ ID NO: 4
89 <211> LENGTH: 81
90 <212> TYPE: PRT
91 <213> ORGANISM: Arabidopsis thaliana
93 <220> FEATURE:
94 <221> NAME/KEY: MISC_FEATURE
95 <223> OTHER INFORMATION: MT1 protein sequence
97 <400> SEQUENCE: 4
98 Met Ser Cys Cys Gly Gly Asn Cys Gly Cys Gly Ser Gly Cys Lys Cys
99 1          5          10          15
101 Gly Asn Gly Cys Gly Gly Cys Lys Met Tyr Pro Asp Leu Gly Phe Ser
102          20          25          30
104 Gly Glu Thr Thr Thr Thr Glu Thr Phe Val Leu Gly Val Ala Pro Ala
105          35          40          45
107 Met Lys Asn Gln Tyr Glu Ala Ser Gly Glu Ser Asn Asn Ala Glu Ser
108          50          55          60
110 Asp Ala Cys Lys Cys Gly Ser Asp Cys Lys Cys Asp Pro Cys Thr Cys
111 65          70          75          80
113 Lys
116 <210> SEQ ID NO: 5
117 <211> LENGTH: 53
118 <212> TYPE: DNA
119 <213> ORGANISM: Artificial sequence
121 <220> FEATURE:
122 <223> OTHER INFORMATION: primer prm03240
124 <400> SEQUENCE: 5
125 ggggacaagt ttgtacaaaa aagcaggctt cacaatgtct tgctgtggag gaa      53

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127 <210> SEQ ID NO: 6
128 <211> LENGTH: 47
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: primer prm03241
135 <400> SEQUENCE: 6
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139 <210> SEQ ID NO: 7
140 <211> LENGTH: 3032
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: expression cassette for MT2a
147 <400> SEQUENCE: 7
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149 aaatataaaa tgagacctta tatatgtagc gctgataact agaactatgc aagaaaaact      120
150 catccaccta ctttagtggtc aatcgggcta aataaaaaag agtcgctaca ctagtttcgt      180
151 tttccttagt aattaagtgg gaaaatgaaa tcattattgc ttagaatata cgttcacatc      240
152 tctgtcatga agttaaatga ttcgaggtag ccataattgt catcaaactc ttcttgaata      300
153 aaaaaatctt tctagctgaa ctcaatgggt aaagagagag atttttttta aaaaaataga      360
154 atgaagatat tctgaacgta ttggcaaaga tttaaacata taattatata attttatagt      420
155 ttgtgcattc gtcataatgc acatcattaa ggacatgtct tactccatcc caatttttat      480
156 ttagtaatta aagacaattg acttattttt attattttatc ttttttcgat tagatgcaag      540
157 gtacttacgc acacactttg tgctcatgtg catgtgtgag tgcacctcct caatacacgt      600
158 tcaactagca acacatctct aatatcactc gcctatttaa tacatttagg tagcaatata      660
159 tgaattcaag cactccacca tcaccagacc acttttaata atatctaaaa taaaaaaat      720
160 aattttacag aatagcatga aaagtatgaa acgaactatt taggtttttc acatacaaaa      780
161 aaaaaaagaa ttttgctcgt gcgcgagcgc caatctccca tattgggcac acaggcaaca      840
162 acagagtggc tgcccacaga acaaccaca aaaaacgatg atctaacgga ggacagcaag      900
163 tccgcaacaa ccttttaaca gcaggctttg cggccaggag agaggaggag aggcaaagaa      960
164 aaccaagcat cctcctcctc ccatctataa attcctcccc ccttttcccc tctctatata      1020
165 ggaggcatcc aagccaagaa gagggagagc accaaggaca cgcgactagc agaagccgag      1080
166 cgaccgcctt cttcgatcca tatcttccgg tcgagttctt ggtcgatctc ttccctcctc      1140
167 cacctcctcc tcacagggtg tgtgcccttc ggttgttctt ggatttattg ttctaggttg      1200
168 tgtagtacgg gcgttgatgt taggaaaggg gatctgtatc tgtgatgatt cctgttcttg      1260
169 gatttgggat agaggggttc ttgatgttgc atgttatcgg ttcggtttga ttagtagtat      1320
170 ggttttcaat cgtctggaga gctctatgga aatgaaatgg tttagggtag ggaatcttg      1380
171 gattttgtga gtacctttt tttgaggtaa aatcagagca ccggtgattt tgcttgggtg      1440
172 aataaaaagta cggttgtttg gtcctcgatt ctggtagtga tgcttctcga tttgacgaag      1500
173 ctatcctttg tttattccct attgaacaaa aataatccaa ctttgaagac ggtcccgttg      1560
174 atgagattga atgattgatt cttaagcctg tccaaaattt cgcagctggc ttgtttagat      1620
175 acagtagtcc ccatcacgaa attcatggaa acagttataa tcctcaggaa caggggattc      1680
176 cctgttcttc cgatttgctt tagtcccaga attttttttc ccaaataatc taaaaagtca      1740
177 ctttctggtt cagttcaatg aattgattgc tacaaataat gcttttatag cgttatccta      1800
178 gctgtagttc agttaatagg taatacccct atagtttagt caggagaaga acttatccga      1860
179 tttctgatct ccatttttaa ttatatgaaa tgaactgtag cataagcagt attcatttgg      1920
180 attatttttt ttattagctc tcacccttcc attattctga gctgaaagtc tggcatgaac      1980
181 tgtcctcaat tttgttttca aattcacatc gattatctat gcattatcct cttgtatcta      2040

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182 cctgtagaag tttctttttg gttattcctt gactgcttga ttacagaaag aaatttatga 2100
183 agctgtaatc gggatagtta tactgcttgt tcttatgatt catttccttt gtgcagttct 2160
184 tgggtgtagct tgccactttc accagcaaag ttcatttaaa tcaactaggg atatcacaag 2220
185 tttgtacaaa aaagcaggct tcacaatgtc ttgctgtgga ggaaactgcg gatgtggatc 2280
186 tggctgcaag tgcggcaacg gttgtggagg ttgcaaaatg taccctgact tgggattctc 2340
187 cggcgagaca accacaactg agacttttgt cttgggcgtt gcaccggcga tgaagaatca 2400
188 gtacgaggct tcaggggaga gtaacaacgc tgagaacgat gcttgcaagt gtggatctga 2460
189 ctgcaagtgt gatccttgca cctgcaagtg aaaccacagct ttcttgtaca aagtgggtgat 2520
190 atcacaagcc cgggcggtct tctagggata acagggtaat tatatccctc tagatcacao 2580
191 gcccgggcgg tcttctacga tgattgagta ataatgtgtc acgcatcacc atgggtggca 2640
192 gtgtcagtgt gagcaatgac ctgaatgaac aattgaaatg aaaagaaaaa aagtactcca 2700
193 tctgttccaa attaaaattc attttaacct tttaataggt ttatacaata attgatatat 2760
194 gttttctgta tatgtctaatt ttgttatcat ccgggcggtc ttctagggat aacagggtaa 2820
195 ttatatccct ctagacaaca cacaacaaat aagagaaaaa acaaataata ttaatttgag 2880
196 aatgaacaaa aggaccatat cattcattaa ctcttctcca tccatttcca tttcacagtt 2940
197 cgatagcgaa aaccgaataa aaaacacagt aaattacaag cacaacaaat ggtacaagaa 3000
198 aaacagtttt cccaatgcca taatactcga ac 3032

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/553,656

DATE: 11/01/2005
TIME: 10:47:16

Input Set : A:\Sequence Listing.txt
Output Set: N:\CRF4\11012005\J553656.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 331

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/553,656

DATE: 11/01/2005

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Input Set : A:\Sequence Listing.txt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:300